

# **METHOD AND SYSTEM FOR AUTOMATICALLY EXTENDING A TIRE PRESSURE MONITORING SYSTEM FOR AN AUTOMOTIVE VEHICLE TO INCLUDE AUXILIARY TIRES**

## **Abstract of Disclosure**

A tire pressure monitoring system (12) for a vehicle (10) includes a speed sensor (38) generating a speed signal indicative of vehicle speed, a timer (44) generating a time signal, a warning status memory (26) having warning statuses therein. The system further includes a plurality of rolling tires in respective rolling location. The plurality of rolling tires (14a), (14b), (14c) and (14d) have respective rolling transmitters (16a), (16b), (16c) and (16d). An auxiliary tire (14f) in an auxiliary location has an auxiliary transmitter (16f) that generates an auxiliary sensor transmission signal. A controller (22) is coupled to the rolling transmitters, the spare tire transmitter and the warning status memory (26). The controller (22) receives the auxiliary sensor transmission signal. When the speed is greater than a predetermined speed and, when the time signal is greater than a predetermined time, the controller associates the auxiliary sensor identification to an auxiliary location of the warning status memory.